Munish Puri

List of Publications by Year in descending order

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135 papers	5,918 citations	71061 41 h-index	82499 72 g-index
137 all docs	137 docs citations	137 times ranked	6281 citing authors

#	Article	IF	Citations
1	Enzyme-assisted extraction of bioactives from plants. Trends in Biotechnology, 2012, 30, 37-44.	4.9	597
2	Nanobiotechnology as a novel paradigm for enzyme immobilisation and stabilisation with potential applications in biodiesel production. Applied Microbiology and Biotechnology, 2013, 97, 23-39.	1.7	244
3	Suitability of magnetic nanoparticle immobilised cellulases in enhancing enzymatic saccharification of pretreated hemp biomass. Biotechnology for Biofuels, 2014, 7, 90.	6.2	212
4	Immobilization of Î²-glucosidase on a magnetic nanoparticle improves thermostability: Application in cellobiose hydrolysis. Bioresource Technology, 2013, 135, 2-6.	4.8	203
5	Recent trends in nanomaterials immobilised enzymes for biofuel production. Critical Reviews in Biotechnology, 2016, 36, 108-119.	5.1	171
6	Omega-3 biotechnology: Thraustochytrids as a novel source of omega-3 oils. Biotechnology Advances, 2012, 30, 1733-1745.	6.0	168
7	Enzyme Immobilisation on Amino-Functionalised Multi-Walled Carbon Nanotubes: Structural and Biocatalytic Characterisation. PLoS ONE, 2013, 8, e73642.	1.1	148
8	Comparison of Cell Disruption Methods for Improving Lipid Extraction from Thraustochytrid Strains. Marine Drugs, 2015, 13, 5111-5127.	2.2	142
9	Ribosome-inactivating proteins: current status and biomedical applications. Drug Discovery Today, 2012, 17, 774-783.	3.2	139
10	Production, purification, and characterization of the debittering enzyme naringinase. Biotechnology Advances, 2000, 18, 207-217.	6.0	127
11	Global status of lignocellulosic biorefinery: Challenges and perspectives. Bioresource Technology, 2022, 344, 126415.	4.8	113
12	Immobilization of Î²-d-galactosidase from Kluyveromyces lactis on functionalized silicon dioxide nanoparticles: Characterization and lactose hydrolysis. International Journal of Biological Macromolecules, 2012, 50, 432-437.	3.6	110
13	Optimization of medium and process parameters for the production of inulinase from a newly isolated Kluyveromyces marxianus YS-1. Bioresource Technology, 2007, 98, 2518-2525.	4.8	105
14	Biofuel production: Prospects, challenges and feedstock in Australia. Renewable and Sustainable Energy Reviews, 2012, 16, 6022-6031.	8.2	105
15	Biochemical Basis of Bitterness in Citrus Fruit Juices and Biotech Approaches for Debittering. Critical Reviews in Biotechnology, 1996, 16, 145-155.	5.1	93
16	Optimisation of novel method for the extraction of steviosides from Stevia rebaudiana leaves. Food Chemistry, 2012, 132, 1113-1120.	4.2	90
17	Enzyme immobilization on nanomaterials for biofuel production. Trends in Biotechnology, 2013, 31, 215-216.	4.9	90
18	Ribosome Inactivating Proteins (RIPs) from Momordica charantia for Anti Viral Therapy. Current Molecular Medicine, 2009, 9, 1080-1094.	0.6	88

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19	Downstream processing of stevioside and its potential applications. Biotechnology Advances, 2011, 29, 781-791.	6.0	86
20	Comparative analysis of key technologies for cellulosic ethanol production from Brazilian sugarcane bagasse at a commercial scale. Biofuels, Bioproducts and Biorefining, 2019, 13, 994-1014.	1.9	85
21	Production of high fructose syrup from Asparagus inulin using immobilized exoinulinase from Kluyveromyces marxianus YS-1. Journal of Industrial Microbiology and Biotechnology, 2007, 34, 649-655.	1.4	77
22	Molecular and Biotechnological Advances in Milk Proteins in Relation to Human Health. Current Protein and Peptide Science, 2009, 10, 308-338.	0.7	75
23	A quick colorimetric method for total lipid quantification in microalgae. Journal of Microbiological Methods, 2016, 125, 28-32.	0.7	73
24	Characterization of a new zeaxanthin producing strain of Chlorella saccharophila isolated from New Zealand marine waters. Bioresource Technology, 2013, 143, 308-314.	4.8	71
25	ON THE MODELLING OF NON-LINEAR ELASTOMERIC VIBRATION ISOLATORS. Journal of Sound and Vibration, 1999, 219, 239-253.	2.1	67
26	Studies on the applicability of alginate-entrapped naringiase for the debittering of kinnow juice. Enzyme and Microbial Technology, 1996, 18, 281-285.	1.6	66
27	Updates on naringinase: structural and biotechnological aspects. Applied Microbiology and Biotechnology, 2012, 93, 49-60.	1.7	64
28	FTIR microspectroscopy for rapid screening and monitoring of polyunsaturated fatty acid production in commercially valuable marine yeasts and protists. Analyst, The, 2013, 138, 6016.	1.7	64
29	Production of inulinase from Kluyveromyces marxianus YS-1 using root extract of Asparagus racemosus. Process Biochemistry, 2006, 41, 1703-1707.	1.8	59
30	Identification and characterization of genes conferring salt tolerance to Escherichia coli from pond water metagenome. Bioresource Technology, 2010, 101, 3917-3924.	4.8	58
31	Exploring potential use of Australian thraustochytrids for the bioconversion of glycerol to omega-3 and carotenoids production. Biochemical Engineering Journal, 2013, 78, 11-17.	1.8	58
32	Recent insights into microbial catalases: Isolation, production and purification. Biotechnology Advances, 2014, 32, 1429-1447.	6.0	58
33	Cellulosic ethanol production via consolidated bioprocessing by a novel thermophilic anaerobic bacterium isolated from a Himalayan hot spring. Biotechnology for Biofuels, 2017, 10, 73.	6.2	58
34	Exploring novel ultrafine Eri silk bioscaffold for enzyme stabilisation in cellobiose hydrolysis. Bioresource Technology, 2013, 145, 302-306.	4.8	53
35	Optimisation of biorefinery production of alginate, fucoidan and laminarin from brown seaweed Durvillaea potatorum. Algal Research, 2019, 38, 101389.	2.4	51
36	Enhanced cellulosic ethanol production via consolidated bioprocessing by Clostridium thermocellum ATCC 31924â˜†. Bioresource Technology, 2018, 250, 860-867.	4.8	47

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37	Optimization of process parameters for the production of naringinase by Aspergillus niger MTCC 1344. Process Biochemistry, 2005, 40, 195-201.	1.8	46
38	Exploring omegaâ€3 fatty acids, enzymes and biodiesel producing thraustochytrids from Australian and Indian marine biodiversity. Biotechnology Journal, 2016, 11, 345-355.	1.8	46
39	Purification and characterization of naringinase from a newly isolated strain of Aspergillus niger 1344 for the transformation of flavonoids. World Journal of Microbiology and Biotechnology, 2005, 21, 753-758.	1.7	45
40	Partial purification and characterization of exoinulinase from Kluyveromyces marxianus YS-1 for preparation of high-fructose syrup. Journal of Microbiology and Biotechnology, 2007, 17, 733-8.	0.9	45
41	Pollen baiting facilitates the isolation of marine thraustochytrids with potential in omega-3 and biodiesel production. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 1231-1240.	1.4	44
42	Bead milling for lipid recovery from thraustochytrid cells and selective hydrolysis of Schizochytrium DT3 oil using lipase. Bioresource Technology, 2016, 200, 464-469.	4.8	44
43	Ribosome inactivating proteins from plants inhibiting viruses. Virologica Sinica, 2011, 26, 357-365.	1.2	43
44	Suitability of Recombinant Lipase Immobilised on Functionalised Magnetic Nanoparticles for Fish Oil Hydrolysis. Catalysts, 2019, 9, 420.	1.6	42
45	Covalent immobilization of naringinase for the transformation of a flavonoid. Journal of Chemical Technology and Biotechnology, 2005, 80, 1160-1165.	1.6	40
46	Hydrolysis of citrus peel naringin by recombinant Î±â€Lâ€rhamnosidase from Clostridium stercorarium. Journal of Chemical Technology and Biotechnology, 2010, 85, 1419-1422.	1.6	38
47	Omega-3 fatty acid production from enzyme saccharified hemp hydrolysate using a novel marine thraustochytrid strain. Bioresource Technology, 2015, 184, 373-378.	4.8	38
48	Molecular characterization and enzymatic hydrolysis of naringin extracted from kinnow peel waste. International Journal of Biological Macromolecules, 2011, 48, 58-62.	3.6	35
49	Antiamnesic effect of stevioside in scopolamine-treated rats. Indian Journal of Pharmacology, 2010, 42, 164.	0.4	34
50	Evaluation of Bread Crumbs as a Potential Carbon Source for the Growth of Thraustochytrid Species for Oil and Omega-3 Production. Nutrients, 2014, 6, 2104-2114.	1.7	34
51	Cell Disruption Optimization and Covalent Immobilization of Î²-D-Galactosidase from Kluyveromyces marxianus YW-1 for Lactose Hydrolysis in Milk. Applied Biochemistry and Biotechnology, 2010, 160, 98-108.	1.4	33
52	Antibacterial activity of stevioside towards foodâ€borne pathogenic bacteria. Engineering in Life Sciences, 2011, 11, 326-329.	2.0	33
53	Optimization of zeaxanthin and Î²-carotene extraction from Chlorella saccharophila isolated from New Zealand marine waters. Biocatalysis and Agricultural Biotechnology, 2015, 4, 166-173.	1.5	33
54	Molecular identification of marine yeast and its spectroscopic analysis establishes unsaturated fatty acid accumulation. Journal of Bioscience and Bioengineering, 2012, 114, 411-417.	1.1	31

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55	Balsamin, a novel ribosome-inactivating protein from the seeds of Balsam apple Momordica balsamina. Amino Acids, 2012, 43, 973-981.	1.2	31
56	Introduction to Artificial Neural Network (ANN) as a Predictive Tool for Drug Design, Discovery, Delivery, and Disposition. , 2016, , 3-13.		31
57	Multiproduct biorefinery from marine thraustochytrids towards a circular bioeconomy. Trends in Biotechnology, 2022, 40, 448-462.	4.9	31
58	Molecular recognition of physiological substrate noradrenaline by the adrenaline-synthesizing enzyme PNMT and factors influencing its methyltransferase activity. Biochemical Journal, 2009, 422, 463-471.	1.7	30
59	Incorporation of oxygen into the succinate co-product of iron(II) and 2-oxoglutarate dependent oxygenases from bacteria, plants and humans. FEBS Letters, 2005, 579, 5170-5174.	1.3	29
60	Citrus peel influences the production of an extracellular naringinase by Staphylococcus xylosus MAK2 in a stirred tank reactor. Applied Microbiology and Biotechnology, 2011, 89, 715-722.	1.7	29
61	Development of a stable continuous flow immobilized enzyme reactor for the hydrolysis of inulin. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 777-782.	1.4	28
62	Combination of calcium and magnesium ions prevents substrate inhibition and promotes biomass and lipid production in thraustochytrids under higher glycerol concentration. Algal Research, 2016, 15, 202-209.	2.4	28
63	Metal ion type significantly affects the morphology but not the activity of lipaseâ€“metalâ€“phosphate nanoflowers. RSC Advances, 2017, 7, 25437-25443.	1.7	28
64	Balsamin induces apoptosis in breast cancer cells via DNA fragmentation and cell cycle arrest. Molecular and Cellular Biochemistry, 2017, 432, 189-198.	1.4	27
65	Inhibition of HIV-1 Replication by Balsamin, a Ribosome Inactivating Protein of Momordica balsamina. PLoS ONE, 2013, 8, e73780.	1.1	27
66	Understanding response surface optimisation to the modeling of Astaxanthin extraction from a novel strain Thraustochytrium sp. S7. Algal Research, 2015, 11, 113-120.	2.4	25
67	Biotechnological applications of microbial bioconversions. Critical Reviews in Biotechnology, 2016, 36, 1050-1065.	5.1	25
68	DEBITTERING OF KINNOW MANDARIN JUICE BY COVALENTLY BOUND NARINGINASE ON HEN EGG WHITE. Food Biotechnology, 2001, 15, 13-23.	0.6	24
69	Propyl gallate and butylated hydroxytoluene influence the accumulation of saturated fatty acids, omega-3 fatty acid and carotenoids in thraustochytrids. Journal of Functional Foods, 2015, 15, 186-192.	1.6	24
70	One-step purification and immobilization of His-tagged rhamnosidase for naringin hydrolysis. Process Biochemistry, 2010, 45, 451-456.	1.8	23
71	Relationship to reducing sugar production and scanning electron microscope structure to pretreated hemp hurd biomass (Cannabis sativa). Biomass and Bioenergy, 2013, 58, 180-187.	2.9	23
72	Integrated consolidated bioprocessing for simultaneous production of Omega-3 fatty acids and bioethanol. Biomass and Bioenergy, 2020, 137, 105555.	2.9	23

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73	An immunoenzymatic dot-ELISA for the detection of Giardia lamblia antigen in stool eluates of clinical cases of giardiasis. Journal of Immunological Methods, 1991, 137, 245-251.	0.6	21
74	Enrichment of Cellulosic Waste Hemp (Cannabis sativa) Hurd into Non-Toxic Microfibres. Materials, 2016, 9, 562.	1.3	21
75	Enzyme systems of thermophilic anaerobic bacteria for lignocellulosic biomass conversion. International Journal of Biological Macromolecules, 2021, 168, 572-590.	3.6	21
76	Selective Enrichment of Omega-3 Fatty Acids in Oils by Phospholipase A1. PLoS ONE, 2016, 11, e0151370.	1.1	20
77	The Nutritional and Pharmacological Potential of New Australian Thraustochytrids Isolated from Mangrove Sediments. Marine Drugs, 2020, 18, 151.	2.2	20
78	Response Surface Optimization of Medium Components for Naringinase Production from Staphylococcus xylosus MAK2. Applied Biochemistry and Biotechnology, 2010, 162, 181-191.	1.4	18
79	Support vector machine (SVM) based multiclass prediction with basic statistical analysis of plasminogen activators. BMC Research Notes, 2014, 7, 63.	0.6	18
80	Rapid quantification of neutral lipids and triglycerides during zebrafish embryogenesis. International Journal of Developmental Biology, 2017, 61, 105-111.	0.3	18
81	Optimization of parameters for hydrolysis of limonin for debittering of kinnow mandarin juice by Rhodococcus fascians. Enzyme and Microbial Technology, 1994, 16, 723-725.	1.6	17
82	Sequence analysis of a salt tolerant metagenomic clone. Indian Journal of Microbiology, 2010, 50, 212-215.	1.5	17
83	Functional Analysis of a Type-I Ribosome Inactivating Protein Balsamin from Momordica balsamina with Anti-Microbial and DNase Activity. Plant Foods for Human Nutrition, 2016, 71, 265-271.	1.4	17
84	Automated Machine Learning Diagnostic Support System as a Computational Biomarker for Detecting Drug-Induced Liver Injury Patterns in Whole Slide Liver Pathology Images. Assay and Drug Development Technologies, 2020, 18, 1-10.	0.6	17
85	Agreement in Histological Assessment of Mitotic Activity Between Microscopy and Digital Whole Slide Images Informs Conversion for Clinical Diagnosis. Academic Pathology, 2019, 6, 2374289519859841.	0.7	16
86	Propene oxidation on substituted 2:1 bismuth molybdates and vanadates. Catalysis Today, 1997, 37, 43-49.	2.2	15
87	Nano-immobilized cellulases for biomass processing with application in biofuel production. Methods in Enzymology, 2020, 630, 327-346.	0.4	15
88	Focusing in on structural genomics: The University of Queensland structural biology pipeline. New Biotechnology, 2006, 23, 281-289.	2.7	14
89	Algal biotechnology for pursuing omega-3 fatty acid (bioactive) production. Microbiology Australia, 2017, 38, 85.	0.1	14
90	Bioethanol production potential of a novel thermophilic isolate Thermoanaerobacter sp. DBT-IOC-X2 isolated from Chumathang hot spring. Biomass and Bioenergy, 2018, 116, 122-130.	2.9	14

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91	Food Bioactives. , 2017, , .		13
92	Marine bioactives: from energy to nutrition. Trends in Biotechnology, 2022, 40, 271-280.	4.9	13
93	Automated Computational Detection, Quantitation, and Mapping of Mitosis in Whole-Slide Images for Clinically Actionable Surgical Pathology Decision Support. Journal of Pathology Informatics, 2019, 10, 4.	0.8	13
94	Isolation and polyphasic characterization of a novel hyper catalase producing thermophilic bacterium for the degradation of hydrogen peroxide. Bioprocess and Biosystems Engineering, 2016, 39, 1759-1773.	1.7	12
95	A screening approach for assessing lytic polysaccharideÂmonooxygenase activity in fungal strains. Biotechnology for Biofuels, 2019, 12, 185.	6.2	12
96	Suitability of Novel Algal Biomass as Fish Feed: Accumulation and Distribution of Omega-3 Long-Chain Polyunsaturated Fatty Acid in Zebrafish. Applied Biochemistry and Biotechnology, 2019, 188, 112-123.	1.4	12
97	Combination of Balsamin and Flavonoids Induce Apoptotic Effects in Liver and Breast Cancer Cells. Frontiers in Pharmacology, 2020, 11, 574496.	1.6	12
98	Release of encapsulated bioactives influenced by alginate viscosity under in-vitro gastrointestinal model. International Journal of Biological Macromolecules, 2021, 170, 540-548.	3.6	12
99	Marine Protists and Rhodotorula Yeast as Bio-Convertors of Marine Waste into Nutrient-Rich Deposits for Mangrove Ecosystems. Protist, 2020, 171, 125738.	0.6	11
100	Synchrotron-FTIR Microspectroscopy Enables the Distinction of Lipid Accumulation in Thraustochytrid Strains Through Analysis of Individual Live Cells. Protist, 2015, 166, 106-121.	0.6	10
101	Tween 80 influences the production of intracellular lipase by Schizochytrium S31 in a stirred tank reactor. Process Biochemistry, 2017, 53, 30-35.	1.8	10
102	Recent insights, applications and prospects of xylose reductase: a futuristic enzyme for xylitol production. European Food Research and Technology, 2021, 247, 921-946.	1.6	10
103	Understanding physicochemical changes in pretreated and enzyme hydrolysed hemp (Cannabis sativa) biomass for biorefinery development. Biomass Conversion and Biorefinery, 2016, 6, 127-138.	2.9	9
104	Bioethanol production by a xylan fermenting thermophilic isolate Clostridium strain DBT-IOC-DC21. Anaerobe, 2018, 51, 89-98.	1.0	9
105	Influence of substrate loadings on the consolidated bioprocessing of rice straw and sugarcane bagasse biomass using Ruminiclostridium thermocellum. Bioresource Technology Reports, 2019, 7, 100138.	1.5	9
106	Purification and Characterization of a Novel Alginate Lyase from a Marine Streptomyces Species Isolated from Seaweed. Marine Drugs, 2021, 19, 590.	2.2	9
107	Reaction of Sulfur and Sustainable Algae Oil for Polymer Synthesis and Enrichment of Saturated Triglycerides. ACS Sustainable Chemistry and Engineering, 2022, 10, 9022-9028.	3.2	9
108	BacHbpred: Support Vector Machine Methods for the Prediction of Bacterial Hemoglobin-Like Proteins. Advances in Bioinformatics, 2016, 2016, 1-11.	5.7	8

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109	Purification and functional characterization of recombinant balsamin, a ribosome-inactivating protein from Momordica balsamina. International Journal of Biological Macromolecules, 2018, 114, 226-234.	3.6	8
110	“Momordica balsamina: A Medicinal and Neutraceutical Plant for Health care Management”. Comments: Biotechnological Potential of M. balsamina Revealed. Current Pharmaceutical Biotechnology, 2010, 11, 229-229.	0.9	8
111	Bioprospecting Indigenous Marine Microalgae for Polyunsaturated Fatty Acids Under Different Media Conditions. Frontiers in Bioengineering and Biotechnology, 2022, 10, 842797.	2.0	8
112	Molecular identification of Staphylococcus xylosus MAK2, a new Î±-l-rhamnosidase producer. World Journal of Microbiology and Biotechnology, 2010, 26, 963-968.	1.7	7
113	â€œExtraction and safety of steviosideâ€ Response to the article â€œStevia rebaudiana Bertoni, source of a high potency natural sweetener: a comprehensive review on the biochemical, nutritional and functional aspectsâ€. Food Chemistry, 2012, 135, 1861-1862.	4.2	7
114	Harnessing the evolutionary information on oxygen binding proteins through Support Vector Machines based modules. BMC Research Notes, 2018, 11, 290.	0.6	6
115	Recombinant Balsamin induces apoptosis in liver and breast cancer cells via cell cycle arrest and regulation of apoptotic pathways. Process Biochemistry, 2020, 96, 146-156.	1.8	6
116	Nanobiocatalyst designing strategies and their applications in food industry. , 2020, , 171-189.		5
117	Integrated approach for smart implantable cardioverter defibrillator (ICD) device with real time ECG monitoring: use of flexible sensors for localized arrhythmia sensing and stimulation. Frontiers in Physiology, 2013, 4, 300.	1.3	4
118	Consolidated Bioprocessing at High Temperature. Energy, Environment, and Sustainability, 2018, , 457-476.	0.6	4
119	Types, Structure, Applications and Future Outlook. , 2017, , 241-254.		4
120	Role of an Artificial Neural Network Classifier in Nuclear Pleomorphic Feature Analysis ofÂHistopathological Images ofÂBreast Cancer. , 2016, , 377-391.		3
121	Marine Microorganisms. , 0, , .		3
122	Omega-3 Fatty Acids Produced from Microalgae. , 2015, , 1043-1057.		2
123	Molecular Characterization of Nanoimmobilized Cellulase in Facilitating Pretreatment of Lignocellulosic Biomass. , 2016, , 141-149.		2
124	Extraction of Lipids and Carotenoids from Algal Sources. , 2017, , 137-152.		2
125	Evaluation of cell disruption method for lipase extraction from novel thraustochytrids. Algal Research, 2017, 25, 62-67.	2.4	2
126	Development of continuous cultivation process for oil production through bioconversion of minimally treated waste streams from secondâ€generation bioethanol production. Journal of Chemical Technology and Biotechnology, 2018, 93, 3018-3027.	1.6	2

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127	Commercial Application of Lignocellulose-Degrading Enzymes in a Biorefinery. Microorganisms for Sustainability, 2020, , 287-301.	0.4	2
128	Multifunctional Bioactives for Cancer Therapy: Emerging Nanosized Delivery Systems. , 2017, , 299-323.		1
129	Overview of the Pipeline for Structural and Functional Characterization of Macrophage Proteins at the University of Queensland. Methods in Molecular Biology, 2008, 426, 577-587.	0.4	1
130	The Inhibitory Effect of Stevioside on Bacillus cereus Growth in Milk: Validation and its Response Surface Optimization. Current Biotechnology, 2015, 4, 56-64.	0.2	1
131	Corrigendum to â€œIncorporation of oxygen into the succinate co-product of iron(II) and 2-oxoglutarate dependent oxygenases from bacteria, plants and humans (FEBS 29930)â€•[FEBS Lett. 579 (2005) 5170-5174]. FEBS Letters, 2005, 579, 6688-6688.	1.3	0
132	Addition of magnesium chloride to enhance mono-dispersity of a coiled-coil recombinant mouse macrophage protein. Molecular and Cellular Biochemistry, 2014, 389, 133-139.	1.4	0
133	Strategies to Enhance Enzyme Activity for Industrial Processes in Managing Agro-Industrial Waste. , 2016, , 299-312.		0
134	Yield Optimization of A Heterologously Expressed Novel Mouse Macrophage Protein. Biosciences, Biotechnology Research Asia, 2013, 10, 173-181.	0.2	0
135	Potential Applications of Nanobiocatalysis for Industrial Biodiesel Production. , 2017, , 349-367.		0